# DATA ITEM DESCRIPTION

| 1. TITLE | 2. IDENTIFICATION NUMBER |
|---|---|
| BASELINE DESCRIPTION DOCUMENT | DI-CMAN-81121 |

**3. DESCRIPTION/PURPOSE**

Provide identification of the approved documents, plus approved changes, which define the item's functional and physical characteristics in the form of specifications, drawings, associated lists, interface control documents, and documents referenced therein. The principal use of this identification is to form the basis for configuration control of designated configuration items (CIs)

| 4. APPROVAL DATE (YYMMDD) | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) | 6a. DTIC APPLICABLE | 6b. GIDEP APPLICABLE |
|---|---|---|---|
| 910201 | SPAWAR (003-221) | | |

**7. APPLICATION/INTERRELATIONSHIP**

7.1 These descriptions shall be required for contracts requiring configuration control, and shall be formally released in writing at the point in time when the baselines are established. This data will be used by the government as the baseline upon which to judge future changes to the equipment/systems. The descriptions shall be updated each time the baselines are changed.

| APPROVAL LIMITATION | 9a. APPLICABLE FORMS | 9b. AMSC NUMBER |
|---|---|---|
| | | N6019 |

**10. PREPARATION INSTRUCTIONS**

10.1 <u>Format Requirements.</u> Baseline descriptions shall be prepared in accordance with the format and using the available data and information sources shown in Figures I, II or III of this Data Item Description. The listings shall contain the specific data used to describe Configuration Items. A sample format is provided in Figure IV depicting the minimum data elements to be recorded.

10.2 <u>Data Content.</u> The descriptions shall include a complete listing of government furnished and contractor developed and furnished documents which are required to totally define and control the baselines. Contractor data described but not required by contract shall be so identified. Data included in the description shall be identified in accordance with the specified contract requirements. If there are no contract requirements, the contractor's identifiers shall be used.

**DISTRIBUTION STATEMENT**

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**DD Form 1664, APR 89**    *Previous editions are obsolete.*

Block 7.0   Application/Interrelationship (Continued)

7.2   The data product generated by this Data Item Description shall reflect the specific and discrete task requirements for baseline documents, as delineated in the contract.

7.3   Preparation of these descriptions shall in no way conflict with or contravene contract requirements specifying delivery of technical data packages and other engineering support data, as delineated in the contract.

7.4   The terms "contract" and "contractor" include intra-government orders and activities.

Block 10.0   Preparation Instructions    (Continued)

10.3   Figures I, II and III summarize the types of hardware and software documents which normally are included in Functional, Allocated, and Product baselines.  Other documents, as delineated in the contract requirements, or as agreed to in data review conferences, may be added by the Government or contractor.

FIGURE I Functional Baseline

A.   FUNCTIONAL BASELINE DESCRIPTION DOCUMENTS

* CI/SYSTEM SPECIFICATION (TYPE A)
* SYSTEM SEGMENT SPECIFICATION (TYPE A)
* PERFORMANCE SPECIFICATION (TYPE B)
* DEVELOPMENT SPECIFICATION (TYPE B)
* CONCEPTUAL DESIGN DRAWINGS
  SOFTWARE REQUIREMENTS SPECIFICATION
  OPERATIONAL CONCEPT DOCUMENT
  SOFTWARE QUALITY EVALUATION PLAN
  SOFTWARE DEVELOPMENT PLAN
  SOFTWARE STANDARDS AND PROCEDURES MANUAL
  SOFTWARE CM PLAN
  HARDWARE CM PLAN

NOTES:
* Designated Baseline Documents

B.   SOURCE OF TECHNICAL DATA AND INFORMATION

JUSTIFICATION FOR MAJOR SYSTEM NEW START OR DOD COMPONENT OPERATIONAL REQUIREMENT EQUIVALENT:

Defense Guidance Element        Funding Implications
Mission and Threat              Constraints
Alternative Concepts            Acquisition Strategy
Technology & Risks              Functional and Physical
                                Characteristics

Block 10.0  Preparation Instructions (Continued)

- SECRETARY OF DEFENSE PROGRAM DECISION MEMORANDUM (OR EQUIVALENT)

- CONCEPT EXPLORATION PROGRAM MANAGEMENT PLAN:

| | |
|---|---|
| Organization & Operations Concept | Life-Cycle Cost Estimates |
| Maintenance Concept | Acquisition Plan (Program & Phase |
| Manpower & Training | Milestones/Schedules (Program & Phase) |

- FUNCTIONAL REQUIREMENTS, CONSTRAINTS AND THRESHOLDS:
  Mission & Threat Analyses
  Rationalization, Standardization, and Interoperability
  Reliability, Maintainability, and/or Availability
  Survivability & Nuclear Hardening
  System Safety
  Security
  Supportability
  Test & Evaluation
  Environment

- ACQUISITION SUPPORT DOCUMENTATION:

| | |
|---|---|
| Configuration Management Plan(s) | Test & Evaluation Master Plan |
| Government CMP | Supportability Assessment Plan |
| Contractor CMP | |
| Product Assurance Plan | Statement of Work |
| System Engineering Management Plan | Contract Data Requirement List |
| Government-Furnished Property Use Plan | Federal Acquisition Regulations |

- ENGINEERING CHANGE PROPOSALS

- CONFIGURATION BOARD MINUTES AND DIRECTIVES

- SYSTEM REQUIREMENTS REVIEW

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FIGURE II.  Allocated Baseline

A. ALLOCATED BASELINE DESCRIPTION DOCUMENTS

* DEVELOPMENT SPECIFICATION
* UPDATED CI/SYSTEM SEGMENT SPECIFICATION
* PRIME ITEM DEVELOPMENT SPECIFICATION
* PRODUCT SPECIFICATION (NDI)
* PERFORMANCE SPECIFICATION
* SOFTWARE REQUIREMENTS SPECIFICATION
* INTERFACE REQUIREMENTS SPECIFICATION
* CONCEPT DESIGN DRAWINGS
* INDENTURED DOCUMENTS LIST
* OPERATIONAL CONCEPT DOCUMENTATION

Block 10.0   Preparation Instructions (Continued)

- SOFTWARE TOP LEVEL DESIGN DOCUMENT
- SOFTWARE TEST PLAN
- SOFTWARE DETAIL DESIGN DOCUMENT
- INTERFACE DESIGN DOCUMENT
- DATABASE DESIGN DOCUMENT


NOTES:
* Designated Baseline Documents


B.   SOURCE OF TECHNICAL DATA AND INFORMATION

- SYSTEM CONCEPT PAPER (OR EQUIVALENT)
- SECRETARY OF DEFENSE PROGRAM DECISION MEMORANDUM
  (MILESTONE I) (OR EQUIVALENT)
- TEST & EVALUATION MASTER PLAN
- DEMONSTRATION & VALIDATION PROGRAM MANAGEMENT PLAN:
     Acquisition Plan                Program Milesontes/Schedules
- PROGRAM SOLICITATION PACKAGES (RFP/RFQ)/SELECTION OF
  CONTRACTORS:
     Statement of Work              Government CM Plans(s)
     CDRL                           Federal Acquisition
                                       Regulations

     Functional Baseline            Contractor CM Plan(s)
     IRD and Specifications         Contractor Work Breakdown
                                       Structure
- SYSTEM ENGINEERING MANAGEMENT PLAN
- PARAMETRIC & FUNCTIONAL ANALYSIS RESULTS
- REQUIREMENTS ALLOCATION & PERFORMANCE BUDGET DOCUMENTS
- TRADE STUDY REPORTS
- SYSTEMS SYNTHESIS PORTRAYAL (Diagrams, Models, Simulations,
     Drawings, etc.)
- SYSTEM HIERARCHY & SPECIFICATION TREE
- TECHNICAL PERFORMANCE MEASUREMENT REPORTS & REVIEW MINUTES
- INTRA & INTER-SYSTEM/CI INTERFACE REQUIREMENTS ALLOCATION &
     DESIGN APPROACH DOCUMENT
- RISK ANALYSIS & MANAGEMENT PLANS & REPORTS
- ENGINEERING SPECIALITIES REQUIREMENTS ANALYSES REPORTS
- LOGISTICS SUPPORT ANALYSIS PLAN & REPORTS
- CONTRACTOR DEMONSTRATION & VALIDATION TEST & EVALUATION
     PLANS & REPORTS
- GOVERNMENT DEVELOPMENT TEST & EVALUATION MASTER PLANS &
     REPORTS
- ENGINEERING CHANGE PROPOSALS
- CONFIGURATION CONTROL BOARD MINUTES & DIRECTIVES
- SYSTEM DESIGN REVIEW
- SOFTWARE DEVELOPMENT CONFIGURATION DOCUMENTS

Block 10.0   Preparation Instructions (Continued)

### FIGURE III.   Product Baseline

A.  PRODUCT BASELINE DESCRIPTION DOCUMENTS

NOTES:
* PRODUCT SPECIFICATION (TYPE C)
* UPDATED PRODUCT SPECIFICATION (NDI)
* PROCESS SPECIFICATION (TYPE D)
* MATERIAL SPECIFICATION (TYPE E)
* PRODUCT DRAWINGS
* INDENTURED DOCUMENT LIST
* SOFTWARE PRODUCT SPECIFICATION
* FCA/PCA AUDIT MINUTES


* Designated Baseline Documents


B.  SOURCE OF TECHNICAL DATA AND INFORMATION

`DECISION COORDINATING PAPER AND INTEGRATED PROGRAM SUMMARY (OR EQUIVALENT)
`SECRETARY OF DEFENSE PROGRAM DECISION MEMORANDUM (MILESTONE II) (OR EQUIVALENT)
`UPDATED TEST AN EVALUATION MASTER PLAN

`FULL-SCALE DEVELOPMENT PROGRAM MANAGEMENT PLAN:
    Acquisition Plan              Milestone/Schedules


`FSD RFP/RFQ-SELECTION OF PRIME OR ASSOCIATED CONTRACTORS:

| | | |
|---|---|---|
| Current FCI | Contractor CM Plan(s) | Contractor Work |
| Allocated | Statement of Work | Breakdown Structure |
| Baseline | Contract Data | Updated Government |
| Interface | Requirements List | CM Plan(s) |
| Design Specs | Federal Acquisition | Contractor Interface |
| | Regulations | Agreements |

`DESIGN SYNTHESIS PRODUCTS
`PRODUCT READINESS REVIEW REPORTS:

| | |
|---|---|
| Preliminary Design Review | Physical Configuration Audit |
| Critical Design Review | Functional Configuration Audit |
| Test Readiness Review | Formal Qualification Review |

`LOGISTICS PLAN FOR PREOPERATIONAL SUPPORT

`CONTRACTOR FULL-SCALE DEVELOPMENT TEST & EVALUATION

`GOVERNMENT DEVELOPMENT, PRODUCT ACCEPTANCE, INITIAL OPERATIONAL & FOLLOW-ON OPERATIONAL TEST & EVALUATION MASTER PLANS AND REPORTS

`COMPUTER SOFTWARE VALIDATION & VERIFICATION V & V

Block 10.0   Preparation Instructions (Continued)

ˇOPERATIONS/MAINTENANCE MANUALS & SUPPORT EQMT V & V

ˇENGINEERING CHANGE PROPOSALS

ˇREQUESTS FOR DEVIATIONS OR WAIVERS

ˇCONFIGURATION CONTROL BOARD MINUTES AND DIRECTIVES

BASELINE
NOTICE

(PROGRAM/NOMENCLATURE)

CONTROL NO:
DATE:
PAGE OF

| LINE NO. | ITEM IDENTIFICATION | ISSUE/DATE | ITEM DESCRIPTION | BASELINE ESTABLISHED | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| | | | | F | A | P | D | |
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FIGURE IV.  Sample Format